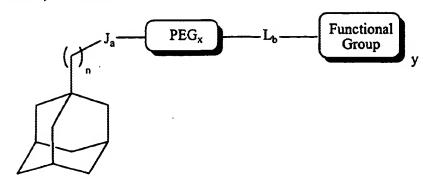
IN THE CLAIMS

1. (Withdrawn) An adamantane derivative of the formula:



wherein

a peptide or polypeptide residue, or $-NH(C=O)-CH(R^1)-NH-(C=O)-CH(R^1)-NH-$;

Ad is adamantyl;

R¹ is -(CH₂)₂-CO₂H, an ester or salt thereof; or

-(CH₂)_a-CONH₂;

PEG is -O(CH₂CH₂O)_z-, where z varies from 2 to 500;

L is H, $-NH_2$, $-NH_2$ (C=O)-(CH₂)_e.-(C=O)--CH₂, -S(=O)₂-HC==CH₂-, -SS-, -C(=O)O- or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

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d ranges from 0 to 6;
e ranges from 1 to 6;
y is 0 or 1; and
x is 0 or 1.
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- 2. (Withdrawn) A composition comprising a particulate composite of a polymer and a therapeutic agent and an inclusion complex of said polymer and a complexing agent having a functional group.
- 3. (Withdrawn) A composition of claim 2, wherein said polymer has host functionality and said complexing agent has guest functionality.
- 4. (Withdrawn) A composition of claim 2, wherein said polymer has guest functionality and said complexing agent has host functionality.
- 5. (Withdrawn) A composition of claim 2, wherein said polymer has host and guest functionality and comprising a mixture of complexing agents having guest and host functionality.
- 6. (Withdrawn currently amended) A composition of claim 3, 4, or 5 wherein said host functionality is selected from the group of cyclodextrin, a eareerond carcerand, a eavitand cavitand, a crown ether, a cryptand, a cucurbituril, a ealixerane calixerene, a spherand or a mixture thereof.
- 7. (Withdrawn) A composition of claim 3, 4, or 5 wherein said complexing agent further comprises a spacer group.
- 8. (Withdrawn) A composition of claim 3, 4, or 5, wherein said inclusion guest is selected from the group consisting of adamantane, diadamantane, naphthalene, and cholesterol.
- 9. (Withdrawn) A composition of claim 8, wherein said host functionality is a cyclodextrin and said inclusion guest is adamantane or diadamantane.

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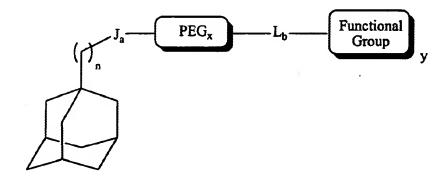
- 10. (Withdrawn currently amended) A composition of claim 2, 3, 4, or 5 wherein said functional group of said functional group is a ligand, nuclear localization signal, endosomal release peptide, endosomal release polymer, a second therapeutic agent, a stabilizing polymer/hydrophilic polymer for stabilization or a mixture thereof; and said spacer group is selected from the group consisting of: a direct link, a phophate phosphate group, and polyethylene glycol and a short anionic peptide sequence.
- 11. (Withdrawn currently amended) A composition of claim 2, 3, 4, or 5 wherein said therapeutic agent is selected from the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a viruse virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.

12. (cancelled)

- 13. (Withdrawn) A method of delivering a therapeutic comprising the step of administering to a person in recognized need of the therapeutic agent a therapeutically effective amount of a composition of claim 2, 3, or 5.
- 14. (currently amended) A method of preparing a composition, comprising combining a therapeutic agent, a cyclodextrin-containing polymer having host and/or guest functionality, and a complexing agent comprising at least one functional group and at least one host/guest moiety that forms an inclusion complex with a host/guest moiety of said cyclodextrin-containing polymer to form the composition, wherein said cyclodextrin-containing polymer and said complexing agent form an inclusion complex, and said therapeutic agent, cyclodextrin-containing polymer, and complexing agent are separate molecules.
- 15. (currently amended) A method of claim 14, wherein said therapeutic agent is first combined with said cyclodextrin-containing polymer and the resulting mixture is then combined with said complexing agent such that said cyclodextrin-containing polymer and said complexing agent form an inclusion complex.

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- 16. (currently amended) A method of claim 14, wherein said <u>cyclodextrin-containing</u> polymer is first combined with said complexing agent to form an inclusion complex and said inclusion complex is combined with said therapeutic agent.
- 17. (cancelled)
- 18. (Previously presented) A method of claim 14, wherein said therapeutic agent is selected from an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.
- 19. (Previously presented) A method of claim 18, wherein said therapeutic agent is a polynucleotide.
- 20. (Previously presented) A method of claim 14, wherein the complexing agent is an adamantane derivative of the formula:



wherein

J is -NH-, -C(=O)NH-CH₂)_d-, -NH-C(=O)-(CH₂)_d-, -CH₂SS-, -C(=O)O-(CH₂)_e-O-P(=O)(O-

-NH-(C=O)-CH(R1)-NH-(C=O)-CH(R1)-NH-;

Ad is adamantyl;

R¹ is -(CH₂)-CO₂H, an ester or salt thereof; or -(CH₂)₂-CONH₂;

PEG is -O(CH₂CH₂O)_z-, where z varies from 2 to 300;

L is H, -NH, -NH-(C=O)-(CH₂)_e-(C=O)-CH₂-, -S(=O)₂-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

n ranges from 0 to 6;

y is 1; and

x is 0 or 1.

- 21. (cancelled)
- 22. (cancelled)
- 23. (currently amended) A method of claim 14, wherein the at least one functional group includes a group selected from a ligand, a nuclear localization signal, an endosomal release peptide, an endosomal release polymer, or a membrane permeabilization agent.

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- 24. (currently amended) A method of claim 14, wherein the at least one functional group includes a moiety that increases the solubility of the composition under biological conditions relative to a composition of the <u>cyclodextrin-containing</u> polymer and therapeutic agent alone.
- 25. (currently amended) A method of claim 14, wherein the at least one functional group includes a moiety that stabilizes the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.
- 26. (currently amended) A method of claim 14, wherein the at least one functional group includes a therapeutic agent reversibly bound to the complexing agent.
- 27. (currently amended) A method of claim 14, wherein the <u>cyclodextrin-containing</u> polymer comprises [[a]] at least one host moiety that forms an inclusion complex with [[a]] at least one guest moiety of the complexing agent.
- 28. (currently amended) A method of claim 14, wherein the <u>cyclodextrin-containing</u> polymer comprises [[a]] <u>at least one</u> guest moiety that forms an inclusion complex with [[a]] <u>at least one</u> host moiety of the complexing agent.
- 29. (currently amended) A method of claim 14, wherein the complexing agent further comprises a spacer group positioned between the at least one functional group and the at least one host/guest moiety of the complexing agent.
- 30. (currently amended) A method of claim 14, wherein the <u>at least one</u> guest moiety is an adamantyl group and the <u>at least one</u> host moiety is a cyclodextrin moiety.
- 31. (currently amended) A method of claim 14, wherein the <u>at least one</u> host/guest <u>moiety</u> of the complexing agent is selected from adamantyl, diadamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

- 32. (new) A method of claim 14, wherein the cyclodextrin-containing polymer comprises a linear cyclodextrin-containing polymer wherein cyclodextrin moieties are present in the backbone of the polymer.
- 33. (new) A method of claim 14, wherein the cyclodextrin-containing polymer contains at least one cyclodextrin moiety in a pendant or branched chain of the cyclodextrin-containing polymer.
- 34. (new) A method of claim 14, wherein the complexing agent comprises at least one polymer portion.
- 35. (new) A method of claim 34, wherein at least one polymer portion of the complexing agent comprises PEG or derivatives thereof.
- 36. (new) A method of claim 14, wherein at least one functional group comprises at least one polymer portion.
- 37. (new) A method of claim 29, wherein the spacer group comprises at least one polymer portion.